

Serial No.: 10/763,413  
Filing Date: January 23, 2004


**REMARKS**

The present amendment corrects obvious typographical errors, including erasures, alterations, overwriting, interlineations, folds, and copy marks in Figures 1-7 in accordance with 37 CFR §§1.84 and 1.121 and is submitted on paper, which is flexible, strong, white, smooth, non-shiny and durable in compliance with 37 CFR § 1.84(e). Replacement Sheets 1/10-10/10 incorporate the corrections and Annotated Sheets Showing Changes marked in red ink are attached for the Examiner's convenience. Applicants submit that this amendment is not new matter and request its entry.

Please direct any calls in connection with this application to the undersigned at  
(415) 781-1989.

Respectfully submitted,  
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### **AMENDMENTS TO THE DRAWINGS**

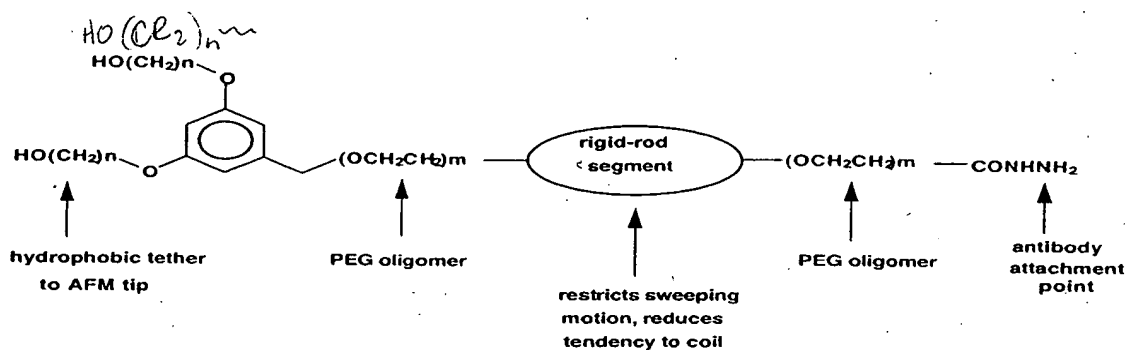
The attached sheets of replacement formal drawings include changes to Figs. 1-7.

Replacement sheet 1/10, which includes Figure 1, replaces the original Figure 1. Replacement sheet 2/10, which includes Figure 2, replaces the original Figure 2. Replacement sheet 3/10, which includes Figure 3A-1, replaces part of the original Figure 3A. Replacement sheet 4/10, which includes Figure 3A-2, replaces part of the original Figure 3A. Replacement sheet 5/10, which includes Figure 3A-3, replaces part of the original Figure 3A. Replacement sheet 6/10, which includes Figure 3B, replaces the original Figure 3B. Replacement sheet 7/10, which includes Figure 4, replaces the original Figure 4. Replacement sheet 8/10, which includes Figure 5, replaces the original Figure 5. Replacement sheet 9/10, which includes Figure 6, replaces the original Figure 6. Replacement sheet 10/10, which includes Figure 7, replaces the original Figure 7.



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~~Figure 2~~



If  $\text{HS}(\text{CH}_2)_n$  replaces  $\text{HO}(\text{CH}_2)_n$  attachment can be at gold substrate surface

If  $(\text{EtO})_3\text{Si}(\text{CH}_2)_n$  replaces  $\text{HO}(\text{CH}_2)_n$  attachment can be at glass/quartz surface

If terminus is a hydrazide then oxidized carbohydrate is used for coupling to glucosylated protein

If hydrazide is replaced with  $-\text{COOH}$  then standard random coupling to lysines is used

FIG. -2

Figure 2 is oriented as landscaped.

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# Reactions for the preparation of the AFM tether molecules

Figure 3  
A

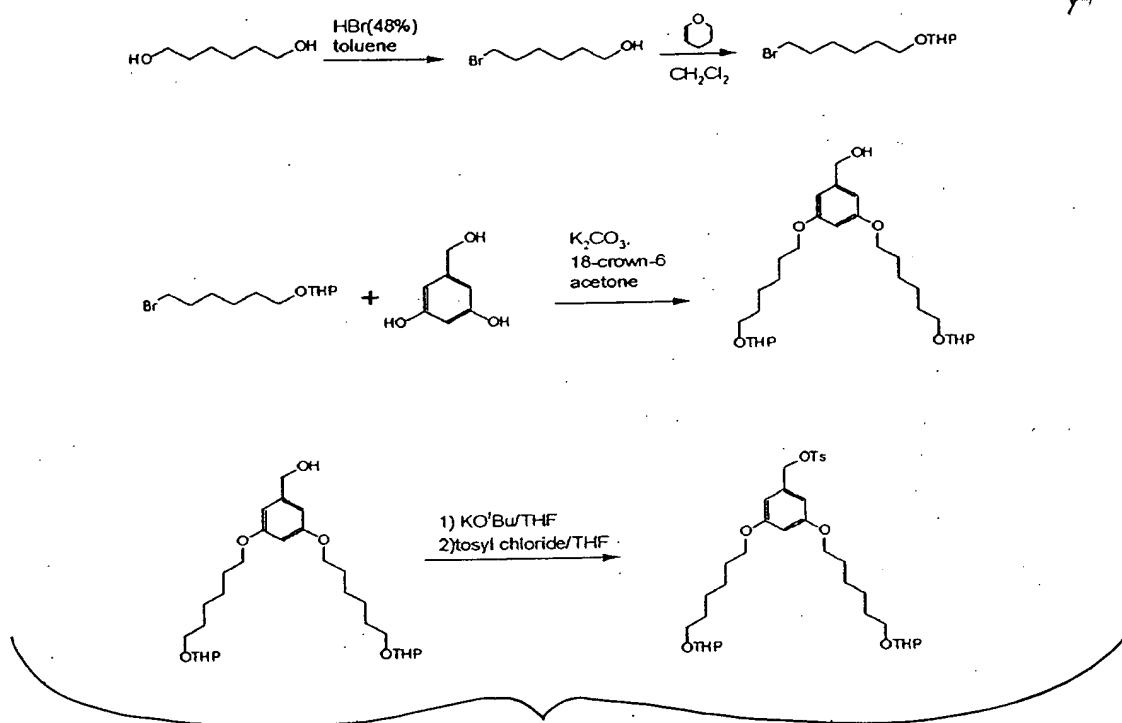
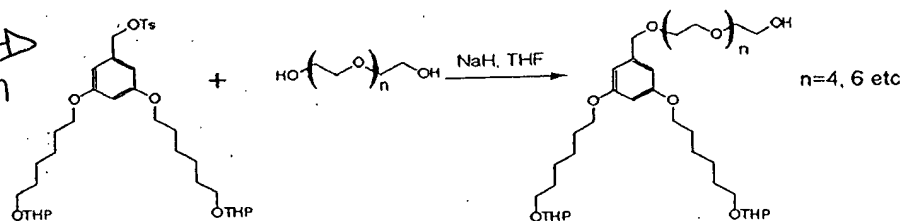


FIG. 3A-1

This figure is now known as part of FIG. 3A-2 on Replacement Sheet 4/10



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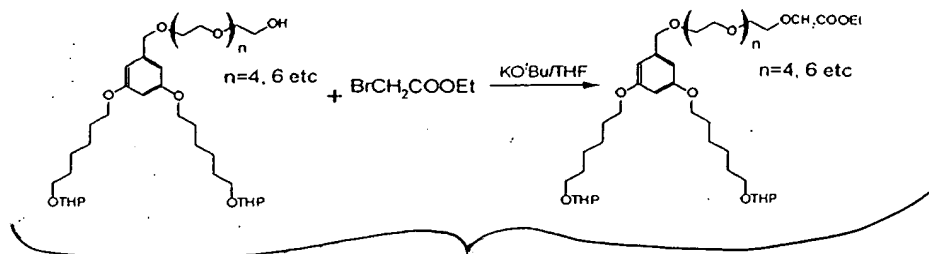
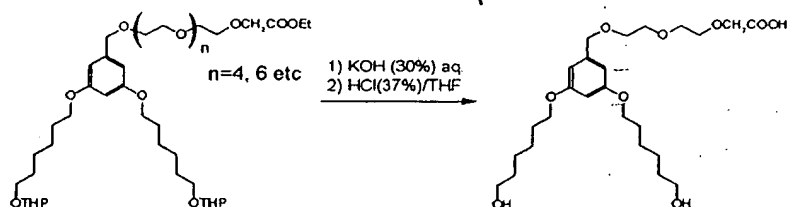


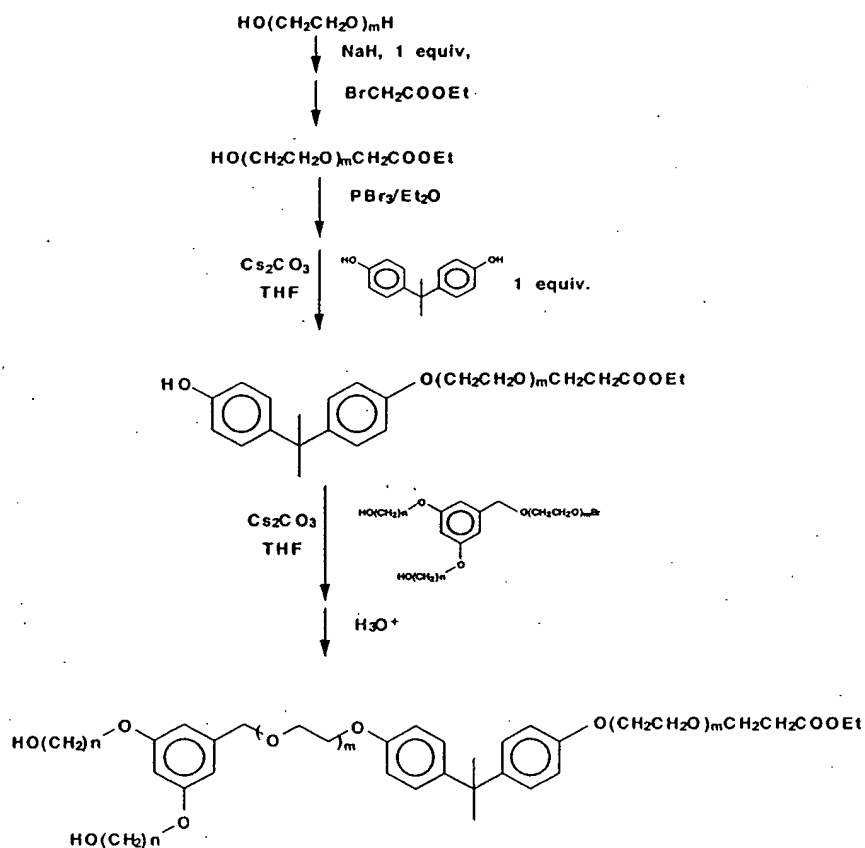
FIG. -3A-2



**Scheme 1: Synthesis of carboxy terminated AFM tether with 2 points of attachment**

FIG. -3A-3

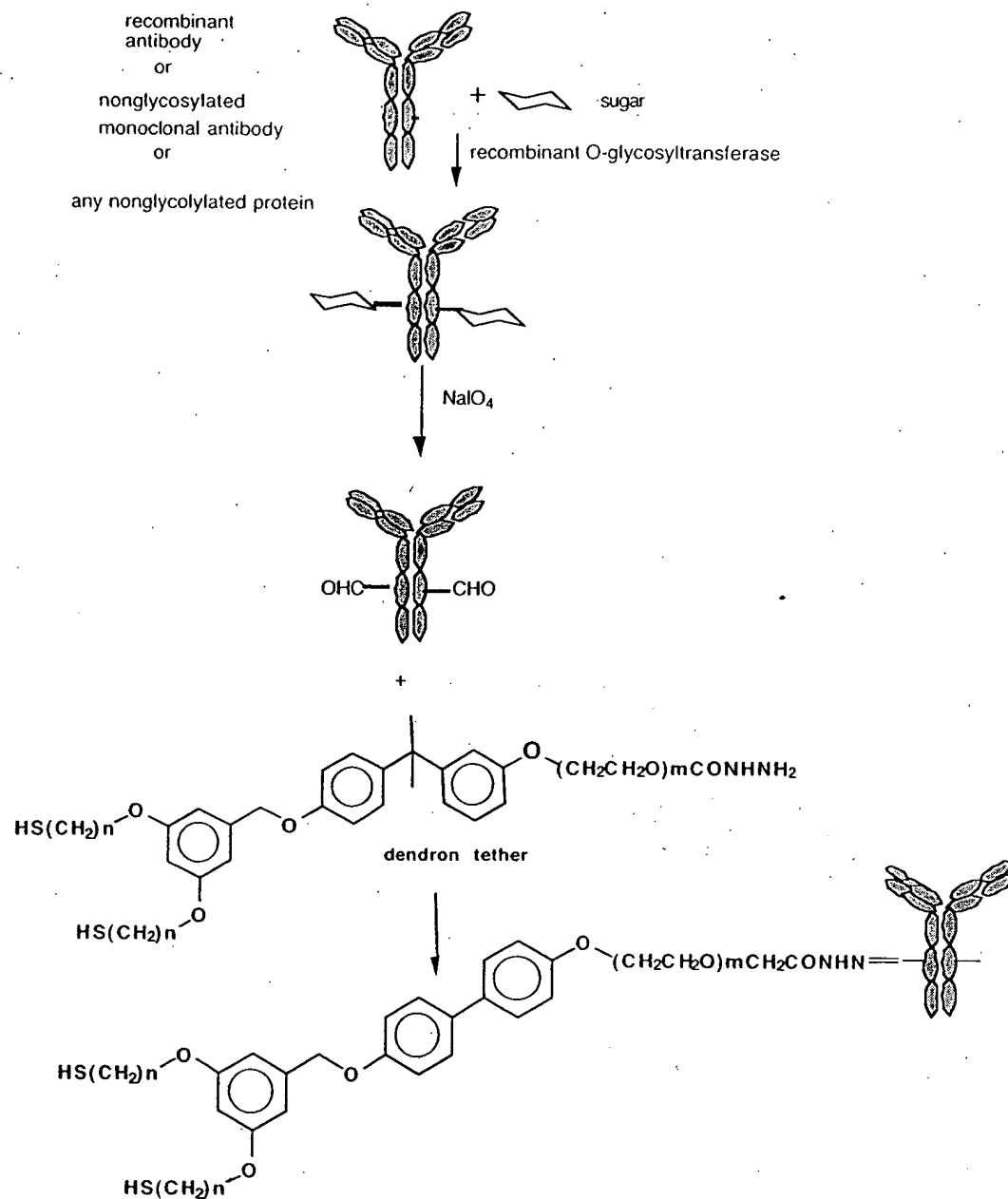
Insertion of rigid rod elements can be accomplished by the following methodology:



**Scheme 2: Representative synthetic strategy for insertion of rigid rods.**

FIG. -3B

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01/7



Synthesis of antigen-specific capture agent tethered to a dendrimer  
functionalized for self-assembly on a gold surface

FIG. 4

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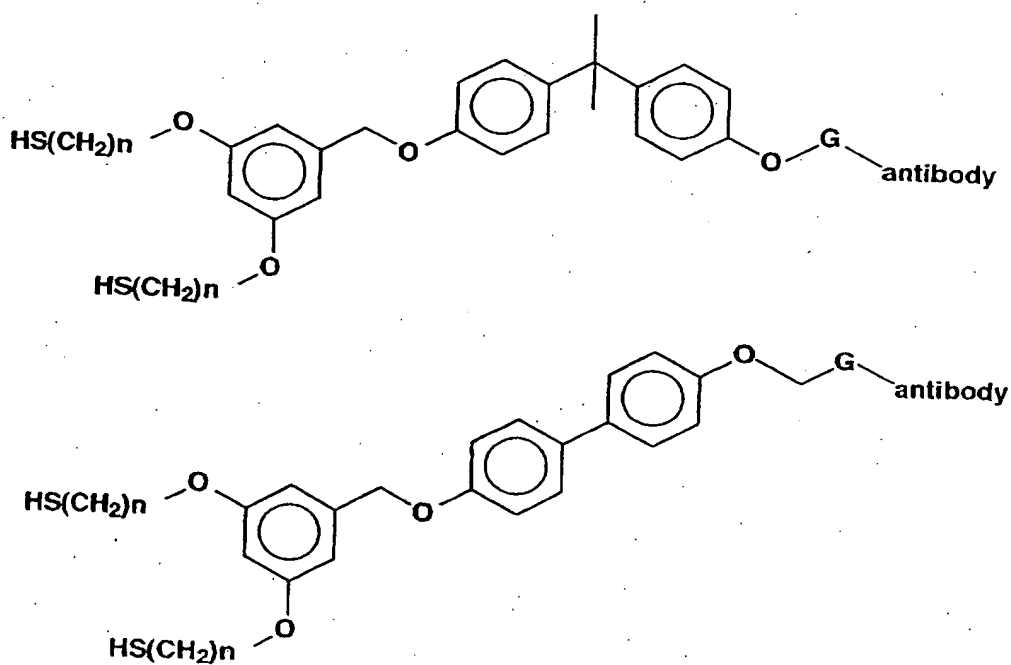
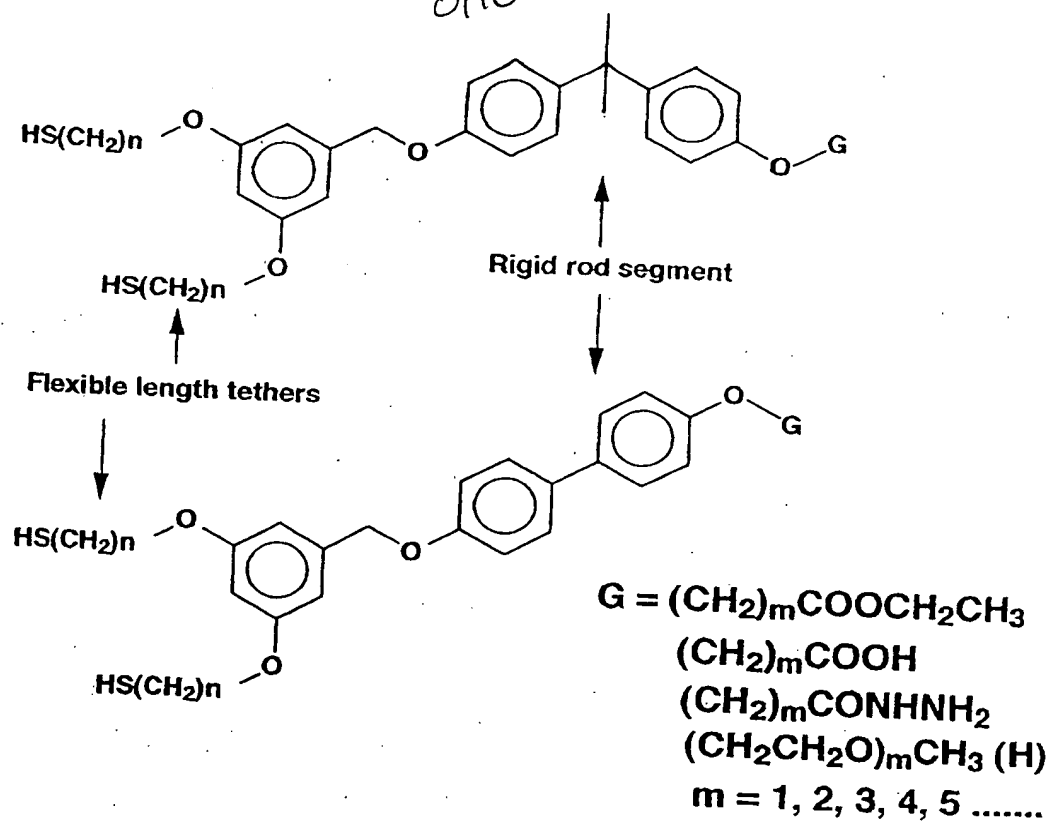


FIG. 5



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Figure 6

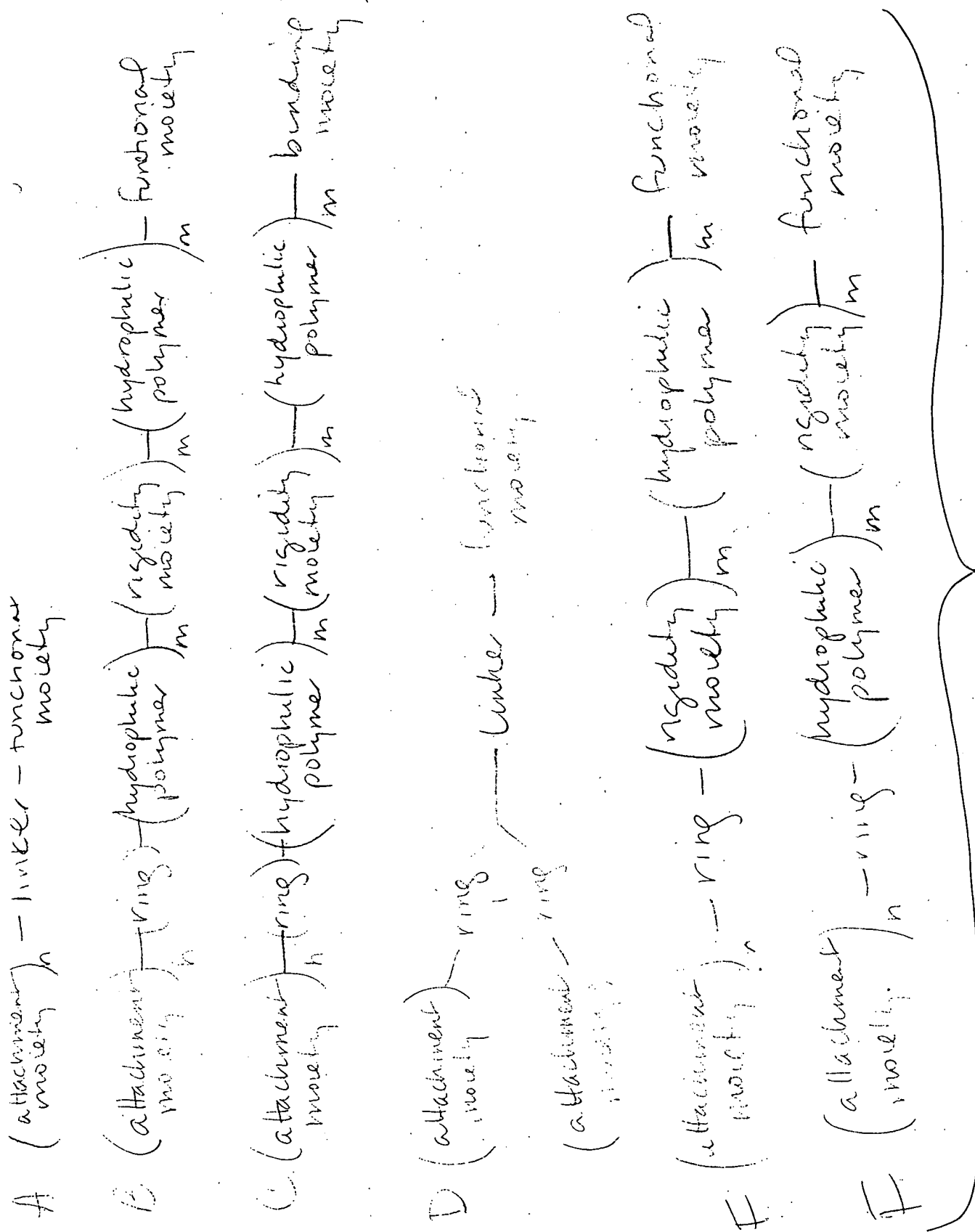


Fig. 6

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~~Fig. 7~~

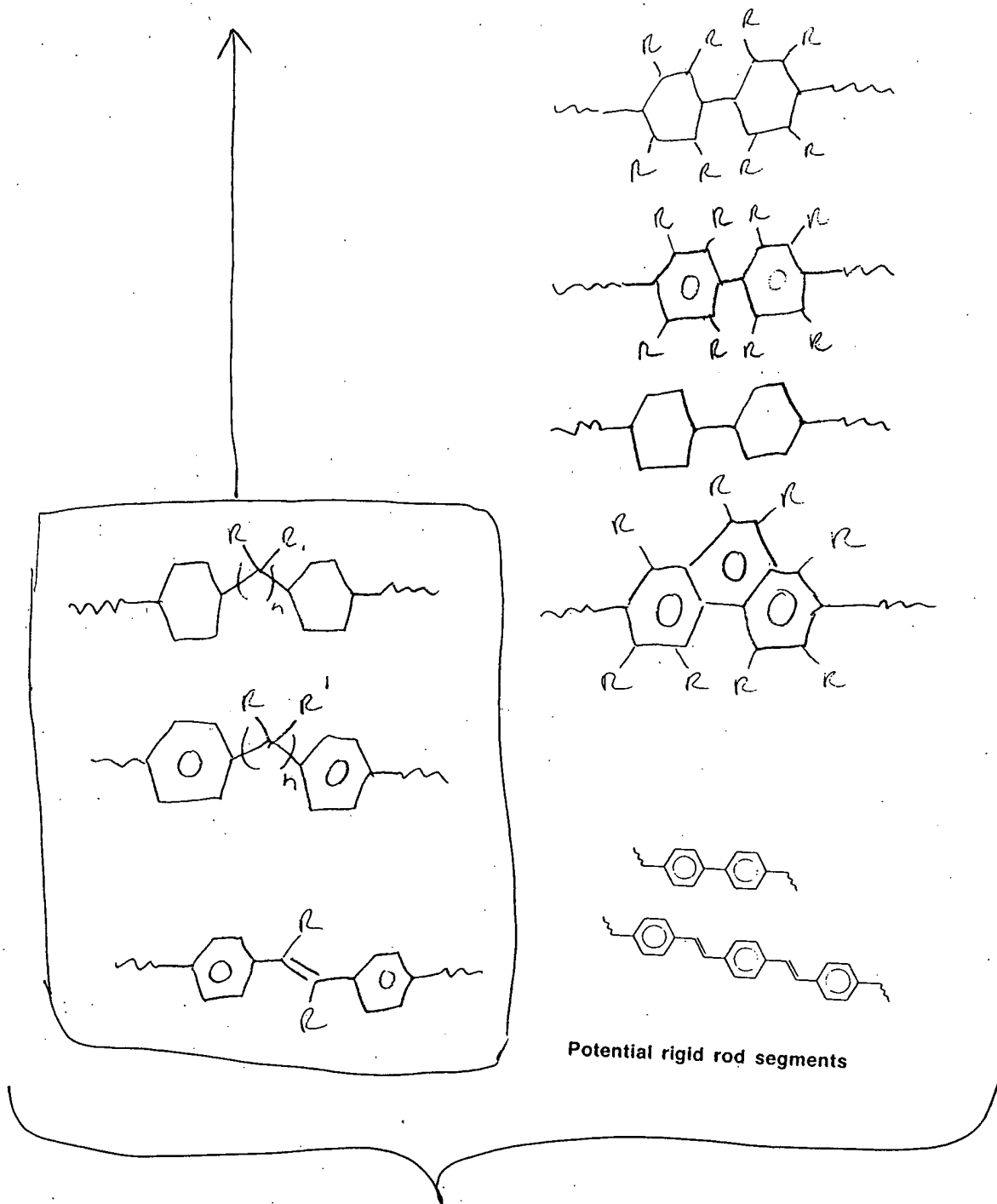


FIG. 7